**Index of Claims** 

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10/643,856 Examiner

Art Unit

Applicant(s)/Patent under

Reexamination

BRAUER ET AL.

Rachel F. Gorr

1711

Rejected Allowed

| _ | (Through numeral)<br>Cancelled |
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Interference

**Appeal** Α 0 Objected

| Claim   |             | _        | Ь-             |  |              |  | J              |              |          |              |              |     |               |     |                 |   |          | J              | Ь.           | -  |          |
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| □           | CI          | aim      | Date           |  |              |  |                |              |          | Claim        |              |     |               |     |                 | - | Date     |                |              |  |          |
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| 2   2   5   53   53   54   55   55   55   55  | <del></del> | (1)      | X              | 1  | $\vdash$     | H  | $\vdash$       | ├            | _        | $\vdash$     | _            |     |               | 51  | -               |   |          | <u> </u>       |              | 1  | ╁        |
| 3       3       5         4       4       5         5       5       5         6       5       5         7       8       5         9       5       55         10       60       60         11       62       61         13       63       63         14       64       64         15       66       66         17       67       67         18       68       69         20       70       70         21       71       72         23       73       73         24       74       74         25       75       75         26       76       77         28       78       79         30       80       81         31       81       82         33       83       84         34       84       99         40       90       90         41       91       92         43       94       99   |             | 12       | -              |  |              | $\vdash$   | $\vdash$       | ├            |          |              |              |     |               | 52  | $\dashv$        |   |          | _              |              | -  | ╁        |
| 4   | 3           | 3        |                | 1  | ╁            | ┢  | -              | $\vdash$     |          |              |              |     |               | 53  | $\pm$           |   | -        | -              |              |  | ╁        |
| S   | 1           |          | _              | -  | <del> </del> | ┢  | ┢              | <del> </del> | -        | ┝            |              |     |               | 54  | H               |   |          | ⊢              |              | $\vdash$   | H        |
| \$\begin{array}{c}\$ 7 = 0.000000000000000000000000000000000  | -           |          |                | _  |              | ┢  | ┢              | $\vdash$     | $\vdash$ | -            | _            |     |               | 55  |                 |   |          | -              | -            | -  | H        |
| b         7         2         57         58         58         58         58         59         58         59 <td>12</td> <td>16</td> <td>F</td> <td>-</td> <td></td> <td><math>\vdash</math></td> <td><math>\vdash</math></td> <td>├</td> <td>├─</td> <td><del> </del></td> <td></td> <td></td> <td></td> <td></td> <td><math>\vdash</math></td> <td></td> <td></td> <td>⊢</td> <td></td> <td>-</td> <td>H</td> | 12          | 16       | F              | -  |              | $\vdash$   | $\vdash$       | ├            | ├─       | <del> </del> |              |     |               |     | $\vdash$        |   |          | ⊢              |              | -  | H        |
| 7       8       58         9       9       59         10       60         111       661         12       62         13       64         15       65         16       66         17       68         19       68         20       70         21       71         22       73         24       74         25       75         26       76         27       77         28       78         33       80         31       81         32       82         33       83         34       84         35       86         37       87         38       89         40       90         41       92         43       94         45       95         46       96         47       97         98       99   | 10          |          |                |  | ╁            | $\vdash$   | ⊢              | ├─           | ├-       | -            | _            |     |               | 57  | $\vdash$        |   | _        | -              | -            | -  | ╁        |
| Q, 9 s         10           11         60           11         62           13         63           14         65           16         66           17         66           18         68           19         68           20         70           21         71           22         73           24         74           25         75           26         76           27         77           28         78           29         79           30         80           31         81           32         82           33         83           34         84           35         85           36         86           37         88           89         90           40         90           41         91           42         92           93         99           90         99           90         90           91         91           42  |             |          |                |  | <del> </del> | $\vdash$   | ┢              | ┢            | ┢        | -            |              |     |               | 58  |                 |   |          | -              |              | <del>                                     </del> | ╁        |
| 10       60         11       62         13       63         14       64         15       65         16       66         17       67         18       69         20       70         21       71         22       72         23       73         24       74         25       75         26       76         27       77         28       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       93         44       94         45       95   |             |          |                | _  | ┢            | $\vdash$   | $\vdash$       | -            | $\vdash$ | -            |              |     |               |     | $\vdash$        |   |          | -              |              |  | ┝        |
| 11       12       61       62         13       63       63         14       65       65         15       65       66         17       67       68         19       69       70         20       70       71         21       71       72         23       73       74         25       75       75         26       76       77         28       78       79         30       80       81         31       81       82         33       83       83         34       84       84         35       85       86         37       87       88         39       89       90         40       90       91         41       91       92         43       93       94         44       94       99   | 7           |          | -              | +  | <del> </del> | $\vdash$   |                | ├─           | -        | $\vdash$     |              |     |               | 60  | $\vdash$        |   |          | ⊢              |              | <u> </u>   | H        |
| 112       62         13       63         14       64         15       65         16       66         17       67         18       68         19       69         20       70         21       71         22       72         23       73         24       74         25       75         26       76         27       77         28       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       90         40       90         41       91         42       92         43       93         44       94         45       96         96       97         97       98  |             |          | ╁              |  | <u> </u>     |  | -              | -            | -        |              |              |     |               | 61  |                 |   |          | ⊢              |              | $\vdash$   | H        |
| 13       63         14       65         15       66         16       66         17       68         19       68         20       70         21       71         22       72         23       73         24       74         25       75         26       76         27       78         29       79         30       80         31       81         32       82         33       84         35       85         36       86         37       88         39       90         41       91         42       92         43       94         44       94         45       96         47       97         48       98         99       99   |             | 12       | ├              |  | ╁            | $\vdash$   | ┢              | $\vdash$     | $\vdash$ | $\vdash$     |              |     |               | 62  | H               |   |          | -              |              | -  | ╁        |
| 14       64         15       66         16       66         17       68         18       69         20       70         21       71         22       73         23       74         25       75         26       76         27       77         28       79         30       80         31       81         32       82         33       84         35       85         36       86         37       88         39       90         40       90         41       91         42       92         43       94         45       96         47       97         48       98         99       99   | <b></b>     |          |                | $\vdash$   | $\vdash$     | <del>                                     </del> | $\vdash$       | $\vdash$     | -        | -            |              |     |               | 63  | $\vdash \vdash$ | _ |          | $\vdash$       | $\vdash$     | $\vdash$   | +        |
| 16       17       66       67       68         19       68       69       70       70       71       72       72       73       74       72       73       74       75       75       75       76       77       78       79       78       79       30       80       81       82       83       83       33       82       83       83       83       83       84       84       84       84       85       86       86       86       87       38       89 <t< td=""><td><b>-</b></td><td></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><del> </del></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td></td><td></td><td></td><td>64</td><td>  </td><td>_</td><td></td><td>├-</td><td><math>\vdash</math></td><td><math>\vdash</math></td><td>H</td></t<>    | <b>-</b>    |          | $\vdash$       | $\vdash$   | $\vdash$     | <del> </del>                                     | $\vdash$       | $\vdash$     | $\vdash$ | $\vdash$     |              |     |               | 64  |                 | _ |          | ├-             | $\vdash$     | $\vdash$   | H        |
| 16       17       66       67       68         19       68       69       70       70       71       72       72       73       74       72       73       74       75       75       75       76       77       78       79       78       79       30       80       81       82       83       83       33       82       83       83       83       83       84       84       84       84       85       86       86       86       87       38       89 <t< td=""><td><u> </u></td><td>15</td><td><del> </del></td><td></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td>-</td><td></td><td></td><td>65</td><td><math>\vdash</math></td><td></td><td></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td>₩</td><td>╁</td></t<>     | <u> </u>    | 15       | <del> </del>   |  | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash$     | $\vdash$ | $\vdash$     | -            |     |               | 65  | $\vdash$        |   |          | $\vdash$       | $\vdash$     | ₩  | ╁        |
| 17       18       67       68       69       69       70       71       72       71       72       72       72       73       74       74       74       74       74       75       75       76       77       78       79       78       79       78       79 <td< td=""><td></td><td></td><td><math>\vdash</math></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td><math>\vdash</math></td><td>_</td><td></td><td></td><td>66</td><td><math>\dashv</math></td><td></td><td></td><td>┝</td><td>├-</td><td></td><td>┾</td></td<>   |             |          | $\vdash$       |  |              |  | -              |              |          | $\vdash$     | _            |     |               | 66  | $\dashv$        |   |          | ┝              | ├-           |  | ┾        |
| 18       68         19       69         20       70         21       71         22       73         23       74         25       75         26       76         27       77         28       79         30       80         31       81         32       83         33       84         35       85         36       86         37       88         39       89         40       90         41       91         42       92         43       94         45       95         46       96         47       97         48       98         49       99   |             | 17       | ┢              | ⊢  |              | 1  | ⊢              | <del> </del> |          |              | $\vdash$     |     |               | 67  | $\dashv$        |   | _        | ├—             | -            | -  | ╁        |
| 19       69         20       70         21       71         22       73         23       74         25       75         26       76         27       76         28       79         30       80         31       81         32       83         33       84         35       85         36       86         37       87         38       86         39       89         40       90         41       91         42       92         43       94         45       96         46       96         47       98         48       99   |             |          | -              | ⊢  | -            |  |                |              |          |              | -            |     |               | 60  | $\vdash$        |   |          | -              | $\vdash$     | ⊢  | ╀        |
| 20       70         21       71         22       72         23       74         25       75         26       75         27       76         27       78         28       79         30       80         31       81         32       82         33       84         35       85         36       85         37       88         39       89         40       90         41       91         42       92         43       94         44       94         45       96         46       96         47       97         48       98         49       99   |             |          | ├              | ├  | ├-           | -  |                |              |          |              | $\vdash$     |     |               |     | -               |   |          | ┝              | ┝            | ⊢  | ╀        |
| 21       71       72         23       73       74         25       75       76         26       77       77         28       79       78         29       79       80         30       80       81         32       82       83         33       84       84         35       85       86         37       88       88         37       88       89         40       90       90         41       91       92         43       94       94         44       94       95         46       96       97         48       99       99   |             | 19       | ├              |  | _            |  | ⊢              |              | -        | H            | _            |     |               | 70  |                 |   |          | _              | <u> </u>     | <u> </u>   | Ł        |
| 22       72         23       73         24       74         25       75         26       76         27       77         28       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       89         40       90         41       91         42       92         43       94         44       94         45       96         46       96         47       97         48       98   | -           | 20       | ├              | ⊢  | -            | -  | -              | $\vdash$     |          | -            | _            |     |               |     | $\dashv$        |   |          | ┝              | ⊢            | ⊢  | ╀        |
| 23       73         24       74         25       75         26       76         27       77         28       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       88         39       89         40       90         41       91         42       92         43       94         44       94         45       96         46       96         47       97         48       98   | <u> </u>    |          | ┢              | H  |              | -  | 1              | ├—           | Ь—       | _            | <u> </u>     |     |               |     | $\vdash$        |   | _        | -              | <u> </u>     | ⊢  | ╀        |
| 24       74         25       75         26       76         27       77         28       78         29       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       94         44       94         45       96         47       97         48       98   | ├           | 22       | ├—             | ⊢  | -            | -  | -              |              | -        | $\vdash$     | _            |     |               | 72  |                 |   |          |                | _            | <u> </u>   | ╀        |
| 25       75         26       76         27       77         28       78         29       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       90         41       91         42       92         43       94         44       94         45       95         46       96         47       97         48       99   |             | 23       | ├              |  |              | <del> </del> —                                   | 1              |              | -        |              |              |     |               | 73  |                 |   |          | _              | <u> </u>     | _  | ╀        |
| 26       76         27       77         28       78         29       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       94         44       94         45       96         47       97         48       98   |             |          | ⊢              |  | -            | -  |                | _            | -        |              |              |     |               |     | -               |   | _        | <del> </del>   | <del> </del> |  | ╀        |
| 27       28       77         28       78         29       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       98  | <u> </u>    | 25       |                |  | -            | ⊢  | $\vdash$       | <u> </u>     | $\vdash$ | H            |              |     |               | 75  | -               |   |          | _              |              | -  | ╀        |
| 28       78         29       79         30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       99   | <u> </u>    | 27       | ├              | -  | -            | H  | -              | <u> </u>     | 1        | H            | _            |     |               | 76  |                 |   | _        | -              |              | ₩  | ╀        |
| 29     79       30     80       31     81       32     82       33     83       34     84       35     85       36     86       37     87       38     88       39     89       40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       99  |             |          | ⊢              | _  | _            | ⊢  | ⊢              | H            | H        | -            | _            |     |               |     |                 |   |          | _              | -            | -  | ╀        |
| 30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       98         49       99   | <u> </u>    | 20       | ├              | <del> </del>                                     |              | -  | -              | $\vdash$     | -        | $\vdash$     | _            |     |               | 70  |                 |   |          |                | -            | -  | ╀        |
| 31     81       32     83       33     83       34     84       35     85       36     86       37     87       38     87       39     89       40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   |             |          | ├              |  | _            | <del> </del>                                     |                |              |          |              |              |     |               | 79  | _               |   |          | ⊢              | $\vdash$     | ⊢  | ╀        |
| 32       82         33       83         34       84         35       85         36       86         37       87         38       87         39       88         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       98         99       99   | <u> </u>    |          | ├              |  | -            | H  | -              |              | _        |              | _            |     |               |     |                 |   |          | -              |              | ┝  | ╀        |
| 33       83         34       84         35       85         36       86         37       88         38       87         39       89         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       98         99       99   | <u> </u>    | 31       | ⊢              | -  |              | ⊢  | $\vdash$       |              | -        | -            | _            |     |               | 81  |                 |   |          |                |              | -  | Ł        |
| 34       84         35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       98         49       99   | <u> </u>    | 32       | ⊢              |  |              | $\vdash$   |                | $\vdash$     | -        | -            |              |     |               |     | $\vdash$        |   |          | ⊢              | $\vdash$     | ⊢  | ╀        |
| 35       85         36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       98         49       99   | <u> </u>    |          | -              | -  | <u> </u>     | $\vdash$   | $\vdash$       | <u> </u>     | -        | -            |              |     |               | 03  | $\vdash \vdash$ |   | -        |                | $\vdash$     | $\vdash$   | +        |
| 36       86         37       87         38       88         39       89         40       90         41       91         42       92         43       93         44       94         45       95         46       96         47       97         48       98         49       99   |             | 35       |                | ├  | ├            | $\vdash$   | $\vdash$       | $\vdash$     | $\vdash$ | $\vdash$     | -            |     |               | 04  | $\vdash$        |   |          | $\vdash$       | -            | $\vdash$   | ╀        |
| 37     87       38     88       39     89       40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   | ļ           |          | <del> </del> — | ├  | ├            | $\vdash$   | $\vdash$       | $\vdash$     | $\vdash$ | $\vdash$     | <u> </u>     |     |               |     | $\vdash$        | _ | <u> </u> | ├              | -            | $\vdash$   | +        |
| 38     88       39     90       40     91       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   |             | 37       |                | ├  | <del> </del> | <del> </del>                                     | ├              | <u> </u>     | -        | $\vdash$     | _            |     |               | 00  | $\vdash$        |   | _        | -              | $\vdash$     | $\vdash$   | +        |
| 39     89       40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   | <u> </u>    |          |                | $\vdash$   | $\vdash$     | <del> </del>                                     | ├─             |              | ├        |              | -            |     |               |     | $\vdash$        |   |          | -              |              | <del> </del>                                     | ╀        |
| 40     90       41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   | <u> </u>    |          | -              | <del>                                     </del> | -            | <del> </del>                                     | -              | ├—           | ├        | <del> </del> | _            |     |               |     | $\vdash$        |   |          | ├              | -            | ├  | +        |
| 41     91       42     92       43     93       44     94       45     95       46     96       47     97       48     98       49     99   | -           |          |                | -  | -            | ├  | <del>  -</del> | <del> </del> | -        | <del> </del> |              |     |               |     | $\vdash \vdash$ | - |          | <del>  -</del> |              |  | ╀        |
| 42       43       44       45       46       47       48       49   | <u> </u>    |          | -              | ₩  | ├            | $\vdash$   | $\vdash$       | $\vdash$     | $\vdash$ | $\vdash$     | _            |     |               |     |                 |   |          | -              | $\vdash$     | ₩  | +        |
| 43     93       44     94       45     95       46     96       47     97       48     98       49     99   | <u> </u>    |          | -              |  | -            |  | ├              |              | -        |              | -            |     |               |     |                 | _ | —        | $\vdash$       | ├—           | $\vdash$   | ╀        |
| 44     94       45     95       46     96       47     97       48     98       49     99   | <u></u>     |          | ├              | ├  | $\vdash$     | $\vdash$   | $\vdash$       | -            |          | -            | <u> </u>     |     | <del></del> ; | 92  | $\vdash$        |   | $\vdash$ | $\vdash$       | <u> </u>     | ₩  | ╀        |
| 45 95 96 96 97 48 98 99 99 99   | <u> </u>    |          | ├              | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash$     |          | -            | <u> </u>     |     |               |     | $\vdash$        | _ |          |                | -            | ├  | ╀        |
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|   |              | 92       |          |          |          | Г  |          |          |          |  |          |
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